

HIND FIX TA-TYPE 1

HIGH-PERFORMANCE ADHESIVE FOR CERAMIC, MOSAIC, LARGE-FORMAT TILES, AND NATURAL STONE.



DESCRIPTION

Hind Fix TA Type-1 is Polymer modified ready mix cement based excellent tile adhesive for fixing small to medium format ceramic tiles and small format natural stone on dry areas of interior floor & interior wall upto a height of 3 Mtrs. It conforming to **IS: 15477-2004, Type 1** standards and also conforms to **ANSI A 118.4, EN12004 & ISO 13007**. It is also certified as a green product by **Indian Green Building Council (IGBC)**.

USES

Hind Fix TA Type-1 is designed especially for dry areas of Interior Floor and Interior Wall installations to be mixed with water only for permanent fixing of all types of ceramic tile, semi-vitreous tile, precast terrazzo and small format natural stones over a variety of cement-based substrates like Concrete, Concrete Masonry, Cement Mortar Beds, Cement Plaster, Ceramic Tile*, Brick Masonry, Cement Terrazzo, Existing Natural Stone*. It can be used in bedroom, toilets, kitchen, wash areas etc.

Please note * Surface to be cleaned and roughened before installation of tiles or stones.

ADVANTAGES

- Economical & Easy to use, only water to be added.
- Polymer based, Interior applications.
- Excellent water proofing characteristics.
- Self-curing.
- Can be used upto 12mm bed thickness.
- Complies with EN / ISO with a C1T classification.
- Exceeds IS 15477:2019 – Type 1T Adhesive standards.
- Long working time.
- Good mechanical strength.
- Usable on a wide range of surfaces.

SURFACE PREPARATION

All surface/substrates to receive **Hind Fix TA** must be dimensionally stable according to **IS: 1443 2018**, fully cured for 28 days, tough and solid, structurally sound, crack less, free from oil, grease, wax and laitance and should be completely dry. Adequate curing of the cementitious substrates should be done during the hot season to avoid shrinkage after the ceramic tiles are installed. Surface exposed to sunlight and hot is to be cooled by spraying water before installation of tiles. Prior to application check the surface to plumb and true to within ¼" (6mm) in 10 ft (3m). Rough or uneven concrete surfaces should be made smooth with **Hind Plast- IWA** Screed / Plaster material to provide a wood float (or better) finish. For New concrete slabs shall be damp cured and 28* days old before application.

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Before application, the surface should be on SSD (Surface Saturated Dry) conditions and tiles should be pre wetted properly. Hind Fix TA Type-1 is to be mixed with water in the ratio of 1: 0.25 to 0.30 parts by weight and stir till a smooth paste is obtained. Allow the paste to stand for 4 to 5 minutes and stir again. Spread the paste on the surface to a uniform thickness of 3 to 4 mm. With a notched trowel to remove any trapped air, place the tiles firmly into position by twisting action. Excess adhesive is to be removed by using damp cloth. Powder should be added to water and not vice versa. Please note that Expansion joints don't cover with thin set mortar. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate.

COVERAGE

5-6 Sq. Mtr. per 20 Kg Bag by using 1/4 x 1/4 (6mm x 6mm) for **3mm mortar thickness**. Coverage may vary depending on the trowel notch size, type and size of the tile and the nature of the substrate.

MIXING

Mix approx. **0.250 – 0.300 Ltr.** clean & potable Water with **1 Kg of Hind Fix-TA Type-1** into a clean bowl. Water can be reduced or increased slightly to achieve desired consistency. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow adhesive to slake for 5 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

GROUTING

Mix Grouting should not be carried out for at least 24 hours. Use the appropriate grouting material from the range of cementitious and epoxy grouts. Grout installation shall be commenced after a minimum of 24 hours curing time at 70°F (21° C) Grouting should be carried out after 24 hours.

PROPERTIES

Aspect	Light Grey Powder
Bulk Density (kg/m ³)	1350 - 1400
Dry Solids (%)	100
Wet Density	1.65 Kg/ Ltr.
	1650 Kg/m ³
pH value	>12
Powder : Water Ratio	1: 0.25 to 0.30
Open Time at 23°C	Approx. 20 minutes
Pot Life at 23°C	Approx. 4 hours
Adjustability	Approx. 15 minutes
Time for Heavy Traffic	15-24 hours

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Grouting in Walls	~ 24 hrs (at +23°C)
Volatile Organic Content (VOC)	11.22 gm/Lit

PERFORMANCE PROPERTIES (for HIND FIX TA TYPE-I ADHESIVE)

Sl.No.	PROPERTIES	TEST METHOD / STANDARD	SPECIFICATION / REQUIREMENT	OBSERVED VALUE / RESULTS
1	Shear Adhesion Strength (14 days Wet Conditions)	As per IS 15477 : 2004 (ANNEX - B)	4000 N/mm ² (Min)	4700 N/mm ²
2	Shear Adhesion / Bond Strength (Wet Conditions)	As per ANSI A118.4-1999, F- 5.2.4	> 150 psi Min.	> 195psi at 7 days
3	Shear Adhesion Strength (14 days Dry Conditions)	As per IS 15477 : 2004 (ANNEX - B)	8000 N/mm ² (Min)	8900 N/mm ²
4	Shear Adhesion Strength (24 hours Dry Conditions)	As per IS 15477 : 2004 (ANNEX - B)	2500.00 N/mm ² (Min after conditioning)	3700.00 N/mm ² (24 hours under laboratory condition)
5	Shear Adhesion / Bond Strength (Dry Conditions)	As per ANSI A118.4-1999, F- 5.2.4	> 200 psi Min.	> 300 psi at 28 days
6	Shear Adhesion Strength (Heat Aging Conditions)	As per IS 15477 : 2004 (ANNEX - B)	4000.00 N/mm ² (Min)	4900.00 N/mm ²
7	Tensile Adhesion Strength (14 days Wet Conditions)	As per IS 15477 : 2004 (ANNEX - B)	450 N/mm ² (Min)	580 N/mm ²
8	Tensile Adhesion Strength (14 days Dry Conditions)	As per IS 15477 : 2004 (ANNEX - B)	750 N/mm ² (Min)	880 N/mm ²
9	Compressive Strength	As per IS 15477 : 2019	5 N/mm ² (Min)	12 N/mm ² at 7 days 16 N/mm ² at 28 days
10	Slip resistance	As per IS 15477 : 2019 Annex E (Clause 5.5)	≤0.5mm	0.1-0.2 mm

Please Note: Specifications subject to change without notification. Results shown are typical but reflect test procedures used.

Actual field performance will depend on installation methods and site condition.

SHELF LIFE

Best before 12 months from the date of manufacture. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 5°C (Min.) and 50°C (Max.).

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LIMITATIONS

- Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes.
- Adhesives, mortars and grouts for ceramic tile, pavers, brick and stone are not designed as replacements for waterproof membranes. When a waterproof membrane is required, Use **Hind Crete-Plus WPM / Hind Hydrolast 2K / Hind Crete-Plus WPM (E)** as Waterproof Membrane when it is required.

CLEANING

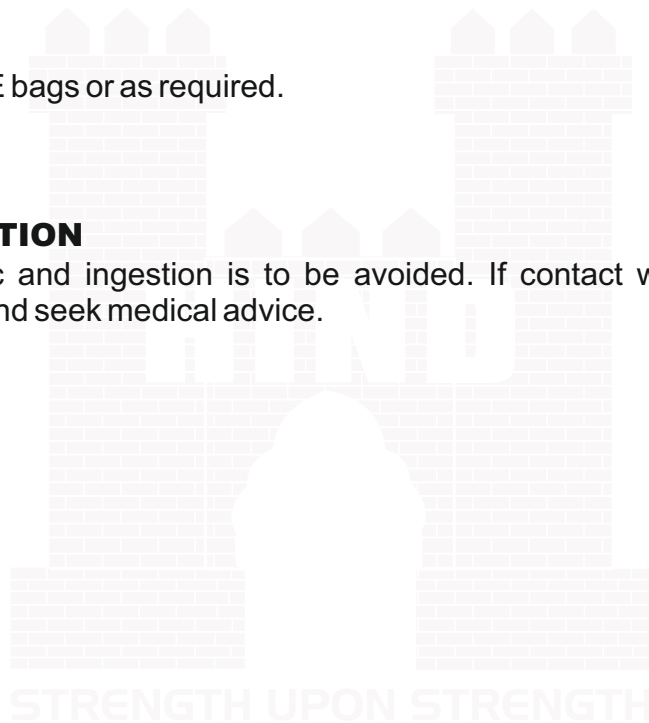
Cleaning of Tools and Tile work to be done with Wet Cloth / Sponge when the adhesive is still green.

PACKING

20 Kg. in Poly lined HDPE bags or as required.

HANDLING PRECAUTION

Hind Fix TA is non-toxic and ingestion is to be avoided. If contact with eyes occurs, wash well immediately with water and seek medical advice.



IMPORTANT NOTICE :

Hindcon Chemicals maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products. The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.

Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behaviour can change as per the prevailing conditions at the time of applications. Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use. The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.



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